IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: C. Banas, et al. Confirmation No.: 7254

Serial No. 10/840,205 Examiner: Thomas C. Barrett

Filed: 5/6/04 Art Unit: 3738

For: METALLIC IMPLANTABLE GRAFT AND METHODS OF MAKING SAME

Mail Stop RCE Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF ELECTRONIC FILING

I hereby certify that this Supplemental Information Disclosure Statement (along with any paper referred to as being attached or enclosed) is being filed electronically on this the 2nd day of February, 2007 addressed to: Mail Stop RCE, Commissioner of Patents, P.O. Box 1450. Alexandria. VA 22313-1450

Lori Dunham

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

1. Preliminary statements

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56. Applicants submit herewith copies of all foreign patent documents and non-patent publications cited herein.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56 it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(b) the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists.

12237

2. Identification Of Time Of Filing

This Information Disclosure Statement

		(check and complete (a), (b), (c), (d), or (e))							
(a) []	accompanies the new patent application submitted herewith. 37 CFR 1.97 (a)								
(b) [] action, w	is filed within thre whichever is later.	e months after the filing date of the application or prior to the mailing date of the first Office 37 CFR 1.97(b)							
	is being filed after ance under '1.311,	the time period specified in '1.97(b), but before mailing of a final action under '1.113, a Notice or and action that otherwise closes in the application (37 C.F.R. '1.97(c)) and is accompanied							
by:	[]	Statement under 37 CFR '1.97(e); or							
	[]	Fee under 37 CFR '1.17(p);							
(d) [] and is a	is being filed afte ccompanied by:	the time period specified in '1.97(c), but before payment of the issue fee (37 C.F.R. '1.97(d))							
	[]	Statement under 37 CFR '1.97(e); or							
	[]	Fee under 37 CFR '1.17(p);							
(e) [X]	is a supplementa	I Information Disclosure Statement under 37 CFR 1.99							
	[X] a previous In	formation Disclosure Statements was filed on <u>December 30, 2005</u> .							
	[] this suppleme attention	ntal Information Disclosure Statement is being submitted as the information was brought to ou							
(f) []	The art was enco	ountered in the course of the prosecution of the corresponding foreign application(s) in							

12237 2

3. Identification Of Person(s) Making This INFORMATION DISCLOSURE STATEMENT

The person making this statement is

(check each applicable item (a) and (b))

(a) [] the inventor(s) who signs below

SIGNATURE OF INVENTOR

Type name of inventor who is signing

(b) [X] the attorney who signs below on the basis of:

(check each applicable item)

[] the information supplied by the inventor(s)

[] which has been reviewed by the attorney

[] which has not been reviewed by the attorney

[X] the information in the attorney's file

Reg.No.: 44,259

Tel.No.: (847) 770-6000

Customer No.: 29,335

SIGNATURE OF ATTORNE

Donna E. Becker

Type or Print Name of Attorney

650 Dundee Road, Suite #380

P.O. Address

Northbrook, Illinois 60062

List of Patents and Publications
For Applicant's Information
Disclosure Statement

(Use Several Sheets if Necessary)

ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840,205

GROUP: 3738

U.S. PATENT DOCUMENTS

Examiner's	Ref.	Document	····			
Initials	Desig.	Number	Date	Name	Class	Subclass
	AA1					
	AB1					
	AC1					
	AD1					
	AE1					
	AF1					
	AG1					
	AH1					
	Al1					
	AJ1					
	AK1					

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Document Number	Date	Country	Class Subclass	Trans. Yes No
AL1	01/53559	26.07.01	WIPO	C23C 14/14	
AM1	01/55473	02.08.01	WIPO	C23C 14/00	
AN1	97/07257	27.02.97	WIPO	C23C 14/00	
AO1	00/04204	1/24/00	WIPO	C23C 14/34	
AP1	00/54704	9/21/00	WIPO	A61F 2/06	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR1 "Multilayer Ceramic/Metallic Coatings by Ion Beam-Assisted, Electron Beam Physical Vapor (EB-PVD) Deposition, Penn State Applied Research Laboratory, pp. 1-4 (1997)

AS1 "The Effects of Ion Irradiation on NiTi Shape Memory Alloy Thin Films" by F. Goldberg and E. Knystautas, <u>Proceedings of the Second International Conference on Shape Memory and Superelastic Technologies Asilomar Conference</u> Center, Pacific Grove, California, USA, pp. 177-182 (1997)

AT1 "Vacuum Conditions for Sputtering Thin Film TiNi", <u>Journal of Vacuum Science and Technology, JVST A Online</u>, pp. 1-2 (Abstract view)

EXAMINER

DATE CONSIDERED

List of Patents and Publications For Applicant's Information Disclosure Statement

(Use Several Sheets if Necessary)

ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840,205

GROUP: 3738

U.S. PATENT DOCUMENTS

Examiner's	Ref.	Document				
Initials	Desig.	Number	Date	Name	Class	Subclass
	AA2					
	AB2					
	AC2					
	AD2					
	AE2					
	AF2					
	AG2					
	AH2					
	Al2					
	AJ2					
	AK2					

FOREIGN PATENT DOCUMENTS

 Ref. Desig.	Document Number	Date	Country	Class Subclass	Trans. Yes No
 AL2	01/21852	3/29/01	WIPO	C23C 14/34	
AM2	01/43790	6/21/01	WIPO	A61L 33/02	
AN2	01/55473	8/2/01	WIPO	C23C 14/00	
AO2	01/21851	3/29/01	WIPO	C23C 14/34	
 AP2	97/44692	11/27/97	WIPO	G02B 6/16	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR2 "Relative importance of bombardment energy and intensity in ion plating", K.S. Fancey, et al., <u>Journal of Vacuum Science & Technology A: Vacuum, Surfaces and Films</u>, Vol. 13, Issue 2, pp. 428-435 (Abstract view) March 1995

AS2 "Thin Film Shape Memory Microvalves with Adjustable Operation Temperature" by Kohl, Dittmann, Quandt and Winzek, Sensors and Actuators, Vol 83, pp. 214-219, (2000)

AT2 "Multicomponent Film Deposition by Target Biasing", IBM Technical Disclosure Bulletin, pp. 1-2 (July 1980)

EXAMINER DATE CONSIDERED

List of Patents and Publications For Applicant's Information Disclosure Statement

(Use Several Sheets if Necessary)

ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840,205

GROUP: 3738

U.S. PATENT DOCUMENTS

Examiner's		Document	Data	Nama	Class	Subclass
Initials	Desig.	Number	Date	Name	Class	Subclass
	AA3					
	AB3					
	AC3					
	AD3					
	AE3					
	AF3					
	AG3					
	AH3					
	AI3					
	AJ3					
	AK3					

FOREIGN PATENT DOCUMENTS

 Ref. Desig.	Document Number	Date	Country	Class Subclass	Trans. Yes No
 AL3	99/23977	5/20/99	WIPO	A61F 2/06	
AM3	99/62432	12/9/99	WIPO	A61F 2/06	
AN3	1452370	3/21/74	Germany	C21C 37/15	
AO3	0 400 947	5/29/90	Europe	C23C 16/00	
AP3	0 442 303	1/25/91	Europe	C23C 16/26	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR3 "Oriented nickel-titanium shape memory alloy films prepared by annealing during deposition" by Kathleen Gisser, et al., <u>Applied Physics Letters</u>, Vol. 61, Issue 14, pp. 1632-1634 (Abstract View)

AS3 "Thin Film Shape Memory Alloy Microactuators" by TiNi Alloy Company (online)

AT3 "A Concise History of Vacuum Coating Technology, Part 2: 1940 to 1975" by D. Mattox, <u>www.svc.org/Historyof</u> Vac2.html, pp 1-15

EXAMINER DATE CONSIDERED

List of Patents and Publications For Applicant's Information Disclosure Statement

(Use Several Sheets if Necessary)

ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840.205

GROUP: 3738

U.S. PATENT DOCUMENTS

Examiner's Initials	Ref. Desig.	Document Number	Date	Name	Class	Subclass
irillais		Number	Date	Name	Olass	Qubolass
	AA4					
	AB4					
	AC4					
	AD4					
	AE4					
	AF4					
	AG4					
	AH4					
	Al4					
	AJ4					
	AK4					

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Document Number	Date	Country	Class Subclass	Trans. Yes No
AL4	11267462	10/5/99	Japan	B01D 59/34	
AM4	51055724	5/17/76	Japan	C22C 01/02	
AN4	01/56502	8/9/01	WIPO	A61F 2/06	
AO4					
AP4					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR4 "Constitutive Parts of a Shape Memory Alloy Titanium Nickel Thin Film Catheter" by L. Buchaillot, et al., <u>Proceedings of the Second International Conference on Shape Memory and Superelastic Technologies Asilomar Conference</u> <u>Center, Pacific Gove, California, USA</u>, pp. 183-188 (1997)

AS4 "The Characteristics of NiTi HCD-Deposited SMA Films" by H. Weixin, et al., <u>Proceedings of the Second International Conference on Shape Memory and Superelastic Technologies Asilomar Conference Center, Pacific Gove, California, USA, pp. 167-172 (1997)</u>

AT4 "Microstructure of Ti-Rich TiNi Thin Films" by A. Ishida, et al., <u>Proceedings of the Second International Conference on Shape Memory and Superelastic Technologies Asilomar Conference Center, Pacific Gove, California, USA, pp. 161-166 (1997)</u>

EXAMINER DATE CONSIDERED

List of Patents and Publications For Applicant's Information Disclosure Statement (Use Several Sheets if Necessary) ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840.205

GROUP: 3738

U.S. PATENT DOCUMENTS

Examiner's		Document	5.1.		01	0.1.1
Initials	Desig.	Number	Date	Name	Class	Subclass
	AA5					
	AB5					
	AC5					
	AD5					
	AE5					
	AF5					
	AG5					
	AH5					
	Al5					
	AJ5					
	AK5					

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Document Number	Date	Country	Class	Subclass	Trans. Yes No
 AL5						0/10
AM5						
AN5						
AO5						
AP5						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR5 "The Experimental Use of Steel Mesh Tubes for the Replacement of Arterial Segments," by Larry, Banning G., M.D., et al., <u>Presented at the Third Scientific Meeting of the North American Chapter of the International Society of Angiology, Atlantic City, NJ</u>, pp. 69-75 (June 4, 1955)

AS5 "Progress in Thin Film Shape Memory Microactuators," by Johnson, et al., www.sma-mems.com/recent.htm (Overview), pp. 105

AT5 "A Concise History of Vacuum Coating Technology, Part 2: 1940 to 1975," by D. Mattox, www.svc.org/HistoryofVac2.html, pp. 1-5

EXAMINER DATE CONSIDERED

List of Patents and Publications For Applicant's Information Disclosure Statement

(Use Several Sheets if Necessary)

ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840,205

GROUP: 3738

U.S. PATENT DOCUMENTS

Examiner's	Ref.	Document				
Initials	Desig.	Number	Date	Name	Class	Subclass
	AA6					
	AB6					
	AC6					
	AD6					
	AE6					
	AF6					
	AG6					
	AH6					
	Al6					
	AJ6					
	AK6					

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Document Number	Date	Country	Class	Subclass	Trans. Yes No
 AL6			·····			
AM6						
AN6						
AO6						
AP6						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR6 "Model Surfaces for Studying and Controlling the Adhesion of Cells" by M. Mrksich, AVS 47th International Symposium, Invited Paper No. BI+EL-TuA1 (October 3, 2000)

AS6 "Cell Response to Chemically and Topographically Modified Surfaces" by D.S. Sutherland, et al., AVS 47th International Symposium, Invited Paper No. BI+EL-TuA3 (October 3, 2000)

AT6 "Tissue Formation of Hepatocytes on Micro-Porous Films of Polylactide" by T. Nishikawa, et al., AVS 47th International Symposium, Invited Paper No. BI+EL-TuA10 (October 3, 2000)

EXAMINER DATE CONSIDERED

Disclosure Statement

List of Patents and Publications
For Applicant's Information

(Use Several Sheets if Necessary)

ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840,205

GROUP: 3738

U.S. PATENT DOCUMENTS

Examiner's	Ref.	Document				
Initials	Desig.	Number	Date	Name	Class	Subclass
	AA7					
	AB7					
	AC7					
	AD7					
	AE7					
	AF7					
	AG7					
	AH7					
	Al7					
	AJ7					
	AK7					

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Document Number	Date	Country	Class	Subclass	Trans. Yes No
AL7						
AM7						
AN7						
AO7						
AP7						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR7 "Endothelial Cell Organization on Micropatterned Protein Surfaces" by R. Daw, et al., AVS 47th International Symposium, Invited Paper No. BI-WeP21 (October 4, 2000)

AS7 "The Nanomechanical Properties of Thin Films" by J.E. Houston, AVS 47th International Symposium, Invited Paper No. TF-TuA1 (October 3, 2000)

AT7 "Porous and nonporous polycarbonate Urethane stent-grafts for TIPS formation: biologic responses (abstract)" by Z.J. Haskal and L.J. Brennecke, J. Vasc. Interv. Radiol, Vol. 10, No. 9, pp. 1255-1263 (October 1999)

EXAMINER DATE CONSIDERED

List of Patents and Publications For Applicant's Information Disclosure Statement (Use Several Sheets if Necessary) ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840,205

GROUP: 3738

U.S. PATENT DOCUMENTS

Examiner's	Ref.	Document				
Initials	Desig.	Number	Date	Name	Class	Subclass
	AA8					
	AB8					
	AC8					
	AD8					
	AE8					
	AF8					
	AG8					
	AH8					
	Al8					
	AJ8					
	AK8					

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Document Number	Date	Country	Class	Subclass	Trans. Yes No
 AL8						
AM8						
AN8						
AO8						
AP8						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR8 "Primary Implantation of Polyester-Covered Stent-Grafts for Transjugluar Introhepatic Portosystemic Stent Shunts (TIPSS): A Pilot Study" by Manfred Cejna, et al., <u>Cardiovasc Intervent Radiol</u>, Vol. 22, pp. 305-310 (1999)

AS8 "Sputtering Targets High-Quality Thin Film Materials" by AMETEK Specialty Metal Products online at www.ametek84.com/fd-sputtering.html, pp. 1-3

AT8 "The influence of ion irradiation during film growth on the chemical stability of film/substrate systems" by W. Ensinger, Surface and Coatings Technology, Vol. 80, pp. 35-48 (1996)

EXAMINER DATE CONSIDERED

List of Patents and Publications For Applicant's Information Disclosure Statement (Use Several Sheets if Necessary) ATTORNEY DOCKET NO: 6006-157

APPLICANT: Banas, et al. FILING DATE: 5/6/04 SERIAL NO: 10/840,205

GROUP: 3738

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) ADDED PAGE

- 1. "Anomalous Plastic and Elastic Behaviors of Sputter-deposited TiN with 10 or 20 Inserted Thin A1 Layers Evaluated by Nanoindentation" by E. Kusano, et al., AVS 47th International Symposium, Paper No. TF-TuA3 (October 3, 2000)
- 2. "Recent Progress in the Application of Thin Film Shape Memory Alloys" by A.D. Johnson and J.D. Busch, <u>Proceedings of the First International Conference on Shape Memory and Superelastic Technologies Asilomar Conference Center, Pacific Grove, California, USA, pp. 299-310 (1994)</u>
- 3. "Shape Memory Properties in NiTl Sputter-deposited Film", by J.D. Busch and A.D. Johnson, <u>J Appl. Phys.</u>, Vol. 68, No. 12, pp. 6224-6226 (December 15, 1990)
- 4. "Thin-film Processing of TiNi Shape Memory Alloy" by J.A. Waker and K.J. Gabriel, Sensors and Actuators, A21-A23, pp. 243-246 (1990)
- 5. "Sputter-deposition of TiNi, TiNiPd and TiPd films displaying the two-way shape-memory effect" by E. Quandt, et al., <u>Sensors and Actuators</u>, A 53, pp. 434-439 (1996)
- 6. "Applications of Shape-Memory Alloy Thin Films" by A.D. Johnson and V.V. Martynov, <u>Proceedings of the Second International Conference on Shape Memory and Superelastic Technologies Asilomar Conference Center, Pacific Grove, California, USA, pp. 1-8 (1997)</u>
- 7. "Liquid Sources for Chemical Vapor Deposition of Group 6 Metals and Metal Nitrides" by Gordon, et al., www.techtransfer.harvard.edu/cgi-bin/TALSearch.cgi?full report=1&case=3, Case Number 1709
- 8. "Stents: Literature," http://www.phytis.com/liter.htm, pp. 1-8

EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw a line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

(Information Disclosure Statement - Section 9 PTO-1449 (Modified) [6-1] -- page 9 of 9